

# CANDIDATE INFORMATION BULLETIN



## STATE OF TENNESSEE Contractor Licensing Examinations

### General Information

1. **Registration:** You must first register for your exam(s) by mailing a completed Registration Form with your fees to Thomson Prometric. Then follow the exam registration and scheduling procedures as described in this Bulletin.
2. **Scheduling an Exam Date:** You must call Thomson Prometric at 800.805.9120 to schedule your exam date after you have registered.
3. **Testing:** Take the exam on the day you have scheduled and at the location you have selected. Bring proper identification to the exam. You will NOT be allowed to test without proper identification.
4. **Exam Results:** Exam results will be given to you at the testing center upon completion of your examination administration.

All general questions and requests for examination information should be directed to:

**Thomson Prometric**  
1260 Energy Lane  
St. Paul, MN 55108  
800.805.9120  
[www.experioronline.com](http://www.experioronline.com)

### Examination Locations

The Tennessee Licensing Board for Contractors has contracted with Thomson Prometric to conduct its examination program. Thomson Prometric provides computerized examinations through its Prometric network of testing centers.

A complete list of testing center locations is available online at [www.experioronline.com](http://www.experioronline.com).

### Standard Exam Registration Procedures

#### BY PHONE

For phone registration, call Thomson Prometric at 800.805.9120 and a Candidate Support Specialist will assist you. You will need the information requested on the Exam Registration Form on Page 11, including your Visa or MasterCard information. You will be able to schedule your exam appointment at the same time.

#### BY FAX

For fax registration, complete the Exam Registration Form on Page 11, including your Visa or MasterCard information, and fax it to Thomson Prometric at 800.347.9242. If the Registration Form is incorrect, it cannot be accepted and will be returned. Faxed registrations are processed within 24 hours or one business day of receipt. You must then call to schedule your exam appointment.

#### BY MAIL

Complete and mail the Exam Registration Form on Page 11 with the required fees. If the registration form is incorrect, it cannot be accepted and will be returned. Payment may be made by cashier's check, company check, money order, MasterCard or Visa. CASH OR PERSONAL CHECKS ARE NOT ACCEPTED. Please allow two to six days for mail delivery and processing. You must then call to schedule your examination appointment. See *Scheduling Your Examination Appointment*.

#### BY WALK-IN

Walk-in testing is offered on a space-available basis if you have registered and paid the exam fee prior to arriving at the testing center. Since seating is limited, it is recommended that an exam appointment be made in advance.

#### FEES AND REFUNDS

All registration fees are nonrefundable and nontransferable.

All exam registrations are valid for 90 days from the date processed by Thomson Prometric and will expire without further notice and your exam fee will be forfeited.

### Scheduling Your Examination Appointment

Once you have registered for an exam, you must schedule an appointment to take the exam. Please call Thomson Prometric at 800.805.9120 between 7:00 a.m. and 8:00 p.m. (Central time), Monday through Friday, to make your appointment. Schedule your exam early to get your preferred site and time.

There is no testing on the following holidays or weekends on which the holiday falls:

- Martin Luther King Jr. Day    ▪ Labor Day
- Presidents Day    ▪ Thanksgiving Day and day after
- Memorial Day    ▪ Christmas Day and day after
- Independence Day and the day before

## RESCHEDULING YOUR APPOINTMENT

To change your appointment time, you must call Thomson Prometric at least **three full business days** before the day of your scheduled appointment. ***Before you call to change your appointment***, refer to the chart below to determine the *last day* you may call.

If your exam is on:	Call by 8:00 p.m. Central time the previous: (This is the last day you may call without paying a rescheduling fee.)
Monday	Tuesday
Tuesday	Wednesday
Wednesday	Thursday
Thursday	Friday
Friday	Monday
Saturday	Tuesday

If you do not allow at least three full business days to reschedule your appointment, as described above, you will need to pay another examination fee prior to choosing another appointment. To pay this fee using Visa or MasterCard and reschedule your appointment, call Thomson Prometric. You may also pay by mailing a cashier's check, company check, money order, Visa or MasterCard information.

## ABSENT OR LATE FOR THE EXAM APPOINTMENT

If you miss your appointment, or arrive late for your appointment and are not allowed to test, you will need to reschedule your exam and pay a \$40 rescheduling fee prior to choosing another appointment. This fee will allow you to use your original exam registration.

If you are unable to attend your scheduled examination due to illness or emergency, call Thomson Prometric. Under certain circumstances, the fee to reschedule may be waived. Thomson Prometric reserves the right to request documentation to support any illness or emergency claim.

## EMERGENCY CLOSINGS

In the event of severe weather or an emergency, Thomson Prometric may need to cancel scheduled exams. Thomson Prometric will attempt to contact you by phone or e-mail; however, you may check for test site closures by calling Thomson Prometric. If the site is closed, your exam will be rescheduled without a rescheduling fee.

If a test center is open for testing and you choose not to appear for testing, your fee will be forfeited and you will need to reschedule your exam and pay another full examination fee.

## RETAKING AN EXAM

If you do not pass the exam, you must re-register by phone, mail or fax and schedule another examination appointment. See *Scheduling Your Examination Appointment*. Another exam registration fee is required. You may not retake an exam on the same day you fail that exam.

## SOCIAL SECURITY NUMBER CONFIDENTIALITY

Thomson Prometric will use your Social Security number only as an identification number in maintaining your record and reporting your grades to the Tennessee Board for Licensing Contractors.

## Special Test Considerations

### AMERICANS WITH DISABILITIES ACT (ADA)

If you require testing accommodations under the *Americans with Disabilities Act* (ADA), please call Thomson Prometric at 888.226.9406 to obtain an Accommodation Request Form. Reasonable testing accommodations are provided to allow candidates with documented disabilities, which are recognized under the *Americans with Disabilities Act* (ADA), an opportunity to demonstrate their skills and knowledge. Candidates should submit professional documentation of the disability with their application to help determine the necessary testing arrangements. Thirty days' advance notice is required for all testing arrangements. There is no additional charge for these accommodations.

Note: If English is your second language, a language barrier is not considered a disability.

## Taking the Examination

Your examination(s) will be given by computer at an Thomson Prometric testing center. You do not need any computer experience or typing skills to take this examination. You will have a personalized introduction to the testing system and an introductory lesson, which takes place on the computer, before you start your test. You should arrive at least 15 minutes before your scheduled examination appointment in order to verify your identification, have your photo taken and allow time for you to sign in.

You must present one valid form of identification before you may test, and it must meet all of the following criteria:

- current, valid and government-issued photo identification (driver's license, state-issued identification card or military identification) that must have a current photo and your signature; and
- the name on the government-issued photo identification must be the same as the name used to register for the examination (including designations such as "Jr." or "III," etc.).

FAILURE TO PROVIDE APPROPRIATE IDENTIFICATION AT THE TIME OF THE EXAMINATION IS CONSIDERED A MISSED APPOINTMENT. If you cannot provide the identification as listed above, contact Thomson Prometric before scheduling your exam appointment.

## Regulations at the Test Center

To ensure that all candidates are tested under equally favorable conditions, the following regulations and procedures will be observed at each test center:

- Only approved references are allowed during the examination. Photocopies of reference materials may NOT be used. No handwritten or additional notes are allowed in the reference books (no letters, words, diagrams, etc.). Any reference material that has been written in during the exam will be confiscated. Highlighting and permanent tabbing is acceptable prior to the exam. Please note that Post-it® notes are not permanent and will not be allowed. Sharing reference materials is not allowed. Reference materials will be checked at the examination site before and after the examinations.
- Candidates may not use any other reference materials, papers or study materials at the test center. Candidates found with these or any other aids will not be allowed to continue the exam and their answers will not be scored.
- Candidates may bring a calculator or slide rule to the test center. Only silent, handheld, solar or battery-operated, nonprogrammable calculators (without paper tape-printing capabilities or alphabetic keypads) may be used. Calculators will be available at the test center.
- Thomson Prometric is not responsible for items left in the reception area of the testing center. While lockers are provided, it is recommended that personal items not be brought into the testing center. Note the following:
  - Electronic equipment such as cameras, tape recorders, cell phones, PDAs and pagers are not permitted in the testing room and must be powered off while stored in a locker.
  - Other personal items not allowed in the testing room include digital watches, outerwear that is not being worn while testing (sweater, jacket, etc.), brief cases, purses, etc.
  - Pocket items (wallet, keys, etc.) must remain in candidate's pocket during testing or placed in a locker.
- Weapons are not allowed at the testing center.
- Candidates that leave the examination room while an exam is in progress must sign out/in on the roster and will lose exam time.
- Candidates will not be permitted to use any electronic devices or phones during breaks.
- No guests, visitors or family members are allowed at the testing center.
- Candidates who engage in any kind of misconduct or disruptive or offensive behavior, such as giving or receiving help, taking part in an act of impersonation, removing test materials or notes from the testing room, rude or offensive language, or behavior that delays or interrupts testing, may be dismissed from the examination.

Failure to follow any of these security procedures may result in the disqualification of your examination. Thomson Prometric reserves the right to audio and videotape any examination session.

### QUESTIONS

Test Center Administrators will not answer technical questions of any sort. Candidates who do not understand a question on the examination should answer the question to the best of their abilities.

If a candidate thinks there is an error in a question, he/she will be given the opportunity to comment on it at the end of the exam. If you would like to formally appeal your score, you must follow the Appeal Committee process as outlined on Page 10.

## Copyrighted Exam Questions

All test questions are the copyrighted property of Thomson Prometric. It is forbidden under federal copyright law to copy, reproduce, record, distribute or display these test questions by any means, in whole or in part, without our written permission. Doing so may subject you to severe civil and criminal penalties, including up to five years in prison and/or a \$250,000 fine for criminal violations.

## Practice Exams

The staff at Thomson Prometric realizes test anxiety can cause a candidate to answer a question incorrectly, even when the candidate knows the correct answer. To help alleviate anxiety, we have prepared practice examinations that will familiarize candidates with the format of exam questions.

The practice examination will help candidates become familiar with testing procedures, sharpen their test-taking ability, and learn to budget their time during the examination.

Practice exams may be purchased for \$25 through Thomson Prometric at the time of registration. Or, you may call Builder's Book Depot at 877.624.2562.

## Content Outline

Contractor examinations are based on the following content areas. Under each subject heading is the approximate number of questions in the subject area for each examination.

<b>100TN19 Business and Law Open Book, 50 questions, 2 hours</b>	
Contract Management	10
Project Management	10
Licensing	5
Financial Management	5
Safety	5
Personnel Regulations	4
Tax Laws	3
Insurance and Bonding	3
Lien Laws	3
Business Organization	2

### 100TN19 Business and Law References

*The following reference IS allowed in the testing center:*

1. *Tennessee Contractor's Reference Manual*, 2004, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

<b>101TN19 Commercial/Industrial/Residential Contractor (BC) Open Book, 80 questions, 4 hours</b>	
Sitework	5 - 7
Concrete	7 - 9
Formwork	6 - 8
Reinforcement	4 - 6
Masonry	7 - 9
Structural Steel	11 - 15
Carpentry	10 - 14
Roofing	7 - 9
Associated Trades	6 - 8
Safety – Code of Federal Regulations	5 - 7

### 101TN19 Commercial/Industrial/Residential Contractor (BC)

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 1999, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

3. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.

4. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 48331.
5. *Modern Masonry*, 1997, Clois E. Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
6. *Fundamentals of Building Construction: Materials and Methods*, 1998, John Wiley & Sons, Inc., 1 Wiley Drive, Somerset, NJ 08875-1272.
7. *Gypsum Construction Handbook*, 1992, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, P.O. Box 806278, Chicago, IL 60606-4678.
8. *Handling and Erection of Steel Joists and Joist Girders*, Technical Digest No. 9, 1987, Steel Joist Institute, 3127 10<sup>th</sup> Ave. North, Myrtle Beach, SC 29577.
9. *Commentary & Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses*, HIB-91, 1991, Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, WI 53719.

<b>103TN19 Residential Building Contractor (BC-A) Open Book, 80 questions, 3 hours</b>	
Sitework	4 - 6
Concrete	9 - 13
Formwork	3 - 5
Reinforcement	5 - 7
Masonry	10 - 14
Carpentry	15 - 19
Roofing	8 - 12
Associated Trades	8 - 10
Safety – Code of Federal Regulations	5 - 7

### 103TN19 Residential Building Contractor (BC-A)

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 1999, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

3. *Commentary & Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses*, HIB-91, 1991, Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, WI 53719.
4. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.

5. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 43331.
6. *Gypsum Construction Handbook*, 1992, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, Chicago, IL 60606-4678.
7. *Modern Masonry*, 1997, Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.

**167TN19 Commercial Contractor (BC-B)**  
**Open Book, 80 questions, 3 hours**

Sitework	6 - 8
Concrete	8 - 12
Formwork	7 - 9
Concrete – Reinforcement	4 - 6
Masonry	7 - 9
Structural Steel	9 - 13
Carpentry	8 - 12
Roofing	7 - 9
Associated Trades	6 - 8
Safety – Code of Federal Regulations	5 - 7

**167TN19 Commercial Contractor (BC-B)**

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 1999, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

3. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 543, Blacklick, OH 43004-0543.
4. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 43331.
5. *Modern Masonry*, 1997, Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
6. *Fundamentals of Building Construction: Materials and Methods*, 1998, John Wiley & Sons, Inc., 1 Wiley Drive, Somerset, NJ 08875-1272.
7. *Gypsum Construction Handbook*, 1992, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, P.O. Box 806278, Chicago, IL 60606-4124.

**168TN19 Commercial/Industrial Contractor (BC-BC)**  
**Open Book, 80 questions, 4 hours**

Sitework	6 - 8
Concrete	8 - 12
Formwork	6 - 8
Reinforcement	4 - 6
Masonry	6 - 8
Structural Steel	11 - 15
Carpentry	7 - 9
Roofing	7 - 9
Associated Trades	8 - 10
Safety – Code of Federal Regulations	5 - 7

**168TN19 Commercial/Industrial Contractor (BC-BC)**

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 2001, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

3. *OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.
4. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.
5. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 43331.
6. *Modern Masonry*, 1997, Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
7. *Fundamentals of Building Construction: Materials and Methods*, 1998, John Wiley & Sons, Inc., 1 Wiley Drive, Somerset, NJ 08875-1272.
8. *Gypsum Construction Handbook*, 1992, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, Chicago, IL 60606-4678.
9. *Handling and Erection of Steel Joists and Joist Girders*, Technical Digest No. 9, 1987, Steel Joist Institute, 3127 10<sup>th</sup> Ave. N., Myrtle Beach, SC 29577.

**169TN19 Industrial Contractor (BC-C)**  
**Open Book, 80 questions, 3 hours**

Sitework	6 - 8
Concrete	8 - 12
Formwork	7 - 9
Reinforcement	4 - 6
Masonry	5 - 7
Structural Steel	12 - 16
Carpentry	7 - 9
Roofing	7 - 9
Associated Trades	7 - 9
Safety – Code of Federal Regulations	5 - 7

**169TN19 Industrial Building (BC-C)**

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 1999, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

3. *Commentary & Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses*, HIB-91, 1991, Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, WI 53719.
4. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.
5. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 43331.
6. *Modern Masonry*, 1997, Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
7. *Fundamentals of Building Construction: Materials and Methods*, 1998, John Wiley & Sons, Inc., 1 Wiley Drive, Somerset, NJ 08875-1272.
8. *Gypsum Construction Handbook*, 1992, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, Chicago, IL 60606-4678.
9. *Handling and Erection of Steel Joists and Joist Girders*, Technical Digest No. 9, 1987, Steel Joist Institute, 3127 10th Ave. N., Myrtle Beach, SC 29577.

**170TN19 Small Commercial Contractor (BC-b)**  
**Open Book, 80 questions, 3 hours**

Sitework	6 - 8
Concrete	7 - 9
Formwork	5 - 7
Reinforcement	4 - 6
Masonry	9 - 13
Structural Steel	5 - 7
Carpentry	13 - 17
Roofing	8 - 10
Associated Trades	6 - 8
Safety – Code of Federal Regulations	5 - 7

**170TN19 Small Commercial Contractor (BC-b)**

*The following references ARE allowed in the testing center:*

1. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 2001, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

3. *Commentary & Recommendations for Handling, Installing & Bracing Metal Plate Connected Wood Trusses*, HIB-91, 1991, Truss Plate Institute, 583 D'Onofrio Drive, Suite 200, Madison, WI 53719.
4. *Carpentry and Building Construction*, 1997, John L. Feirer et al., Glencoe Order Services, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.
5. *The Contractor's Guide to Quality Concrete Construction*, Second Edition, 1998, American Concrete Institute, 38800 International Way/Country Club Drive, P.O. Box 9094, Farmington Hills, MI 43331.
6. *Modern Masonry*, 2003, Kicklighter, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
7. *Fundamentals of Building Construction: Materials and Methods*, 1999, John Wiley & Sons, Inc., 1 Wiley Drive, Somerset, NJ 08875-1272.
8. *Gypsum Construction Handbook*, 2000, Millennium Edition, United States Gypsum Company, 125 South Franklin Street, Chicago, IL 60606-4678.

<b>201NAT Electrical (CE) Open Book, 100 questions, 4 hours</b>	
General Electrical Knowledge and Calculations	10
Raceways and Enclosures	10
Services, Feeders and Branch Circuits	10
Overcurrent Protection	5
Conductors and Cables	9
Grounding and Bonding	16
Utilization and General Use Equipment	9
Special Occupancies	5
Special Equipment and Conditions	5
Motors and Controls	12
Low Voltage and Communication Circuits	6
Safety	3

### 201NAT Electrical (CE)

*The following references ARE allowed in the testing center:*

1. *NFPA 70 - National Electrical Code*, 2002, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

*The following references have been used to create exam questions but are NOT allowed in the testing center:*

1. *American Electricians' Handbook*, 2002, Fourteenth Edition, Croft and Summers, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.
2. *Alternating Current Fundamentals*, Sixth Edition, 2000, Delmar Publishing/Thomson Learning, P.O. Box 6904, Florence, KY 41022.
3. *Industrial Motor Control, Fourth Edition*, 1999, Delmar Publishing/Thomson Learning, P.O. Box 6904, Florence, KY 41022.

<b>213TN19 High Voltage (CE-A&amp;H) Open Book, 20 questions, 1 hour</b>	
Underground and Aerial Utility	10 - 13
NEC – Cable TV	1 - 3
NEC – Safety	2 - 4
General Theory	2 - 4

### 213TN19 High Voltage (CE-A and H)

*The following references ARE allowed in the testing center:*

1. *NFPA 70 - National Electrical Code*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
2. *The Lineman's and Cableman's Handbook*, 2002, Ninth Edition, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.

*The following reference has been used to create exam questions but is NOT allowed in the testing center:*

1. *American Electricians' Handbook*, 2002, Fourteenth Edition, Croft and Summers, McGraw-Hill Publishing, Inc., P.O. Box 545, Blacklick, OH 43004-0543.

<b>301TN19 Plumbing Contractor (CMC-A) Open Book, 100 questions, 3 hours</b>	
Plumbing – Administration	4 - 6
Plumbing – Basic Principles	2 - 4
Plumbing – Definitions	3 - 5
Plumbing – General Regulations	6 - 8
Plumbing – Materials	2 - 4
Plumbing – Joints and Connections	2 - 4
Plumbing – Traps and Cleanouts	5 - 7
Plumbing – Interceptors	5 - 7
Plumbing – Plumbing Fixtures	6 - 8
Plumbing – Hangers and Supports	2 - 4
Plumbing – Indirect Wastes	3 - 5
Plumbing – Water Supply and Distribution	6 - 8
Plumbing – Drainage Systems and Calculations	9 - 11
Plumbing – Vents, Venting and Calculations	9 - 11
Plumbing – Storm Drains	1 - 2
Fuel Gas Systems	8 - 10
Septic Tanks	1 - 3
Isometric Analysis	8 - 12

### 301TN19 Plumbing Contractor (CMC-A)

*The following references ARE allowed in the testing center:*

1. *Standard Plumbing Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Standard Gas Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
3. *Plumbing Technology: Design & Installation*, 2000, Third Edition, Lee Smith, Delmar/International Thomson Publishing, P.O. Box 6904, Florence, KY 41022-2501.
4. *Plumbing*, 2002, L.V. Ripka, American Technical Publishers, 1155 West 175<sup>th</sup> Street, Homewood, IL 60430.

<b>405TN19 Mechanical Contractor (CMC) Open Book, 128 questions, 4 hours</b>	
Code Compliance and Safety	10 - 12
Fuel Gas Systems	16 - 20
Pollution Control	2 - 4
HARV Load Calculation	8 - 10
Boilers – Low Pressure	4 - 6
Boilers – High Pressure	4 - 6
Piping – Steam	8 - 12
Welding	5 - 7
Piping – Power Piping	10 - 12
Fire Sprinkler	4 - 6
General Knowledge	6 - 8
Basic Principles	6 - 8
Troubleshooting	5 - 7
HARV General	5 - 7
HARV Maintenance	6 - 8
HARV Controls – Pneumatic	5 - 7
Insulation	4 - 6
Psychrometric Analysis	1 - 2

### 405TN19 Mechanical Contractor (CMC)

**The following references ARE allowed in the testing center:**

1. *Standard Mechanical Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Standard Gas Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
3. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, July 2001, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

- OSHA Excerpts for Contractors*, 2000, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.
3. *NFPA 13 - Installation of Sprinkler Systems*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
  4. *NFPA 14 - Installation of Standpipe and Hose Systems*, 2000, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
  5. *NFPA 54 - National Fuel Gas Code*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
  6. *NFPA 58 - LP-Gas Code*, 2001, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
  7. *NFPA 90A - Installation of Air Conditioning and Ventilating Systems*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
  8. *ANSI/ASHRAE 15-01 - Safety Code for Mechanical Refrigeration*, 2001, American National Standards Institute, 1791 Tullie Circle, Atlanta, GA 30329.

9. *ASME B31.8 - Gas Transmission and Distribution Piping Systems*, 2000, American Society of Mechanical Engineers, 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900.
10. *ASME B31.1 - Power Piping*, 2001, American Society of Mechanical Engineers, 22 Law Drive, P.O. Box 2900, Fairfield, NJ 07007-2900.
11. *Manual N - Load Calculations for Commercial Summer and Winter Air Conditioning (using unitary equipment)*, 1988, Fourth Edition, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206.
12. *Trane Ductulator*, TRANE Co., 3030 Airport Rd., LaCrosse, WI 54603.
13. *System Design Manual - Part III: Piping Design, Carrier*, 1960, Carrier Air Conditioning Co., Carrier Parkway, Literature Distribution, Building TR-2, P.O. Box 4808, Syracuse, NY 13221.
14. *Pipefitter's Handbook*, 1967, Third Edition, Forest R. Lindsey, Industrial Press Inc., 200 Madison Avenue, New York, NY 10016.
15. *Pipe Welding Procedures*, 1973, H. Rampaul, Industrial Press Inc., 200 Madison Avenue, New York, NY 10016.
16. *Plumbing*, 2002, L.V. Ripka, American Technical Publishers, 1155 West 175<sup>th</sup> Street, Homewood, IL 60430.
17. *Low Pressure Boilers*, 2001, Frederick M. Steingress, American Technical Publishers, 1155 West 175<sup>th</sup> Street, Homewood, IL 60430.
18. *High Pressure Boilers*, 1994, Second Edition, Frederick Steingress & Harold J. Frost, American Technical Publishers, 1155 West 175<sup>th</sup> Street, Homewood, IL 60430.
19. *Refrigeration and Air Conditioning*, Third Edition, A.R.I., Prentice Hall, Order Processing Center, P.O. Box 11071, Des Moines, IA 50336-1071.
20. *Modern Refrigeration and Air Conditioning*, 2000, Althouse, Turnquist & Bracciano, Goodheart-Willcox Company, Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.
21. *Trane Air Conditioning Manual*, 1996, TRANE Co., 3030 Airport Rd., LaCrosse, WI 54603.
22. *ASHRAE Handbook of Fundamentals*, 2001, American Society of Heating, Refrigeration and Air Conditioning Engineers, 1791 Tullie Circle, Atlanta, GA 30329.



<b>407TN19 HVAC Refrigeration Contractor (CMC-C)</b> <b>Open Book, 72 questions, 3 hours</b>	
HARV General	13 - 17
Safety – Refrigeration	4 - 8
Boilers	4 - 8
Piping	4 - 8
Fan Theory	4 - 8
Ducts	4 - 8
Fuel Gas Systems – Piping	12 - 16
HARV Load Calculation	1 - 5
Psychrometric Analysis	1 - 5
HARV Controls	1 - 5
Fuel Gas Systems-Gas Venting	3 - 5

### 407TN19 HVAC-Refrigeration Contractor (CMC-C)

*The following references ARE allowed in the testing center:*

1. *Standard Mechanical Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
2. *Standard Gas Code*, 1997, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.
3. *Standard Building Code*, 1999, Southern Building Code Congress International, Inc., 900 Montclair Road, Birmingham, AL 35213-1206.

*The following reference has been used to create exam questions but is NOT allowed in the testing center:*

1. *Modern Refrigeration and Air Conditioning*, 2000, Althouse, Turnquist and Bracciano, Goodheart-Willcox Co., Inc., 18604 W. Creek Drive, Tinley Park, IL 60477-6243.

<b>411TN19 Sprinklers and Fire Protection Contractor (CMC-D)</b> <b>Open Book, 40 questions, 2 hours</b>	
Fire Sprinkler Systems	16 - 20
Fire Sprinkler – Wet and Dry Chemical Systems	8 - 12
Fire Sprinkler – Standpipe	2 - 6
Fire Prevention	2 - 6
Fire Sprinkler – Flammable Storage	1 - 3
Code Compliance	1 - 3

### 411TN19 Sprinklers and Fire Protection Contractor (CMC-D)

*The following references ARE allowed in the testing center:*

1. *NFPA 70 - National Electrical Code*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
2. *NFPA 13 - Installation of Sprinkler Systems*, 1999, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.

3. *NFPA 14 - Installation of Standpipe and Hose Systems*, 2000, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
4. *NFPA 17 - Dry Chemical Extinguishing Systems*, 1998, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
5. *NFPA 17A - Standard for Wet Chemical Extinguishing Systems*, 1998, National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101.
6. *Code of Federal Regulations - Title 29, Part 1926 (OSHA)*, 2001, Superintendent of Documents, U.S. Government Printing Office, Stop SSOP, Washington, DC 20402-0001.

**OR**

*OSHA Excerpts for Contractors*, 1997, Thomson Prometric, 1260 Energy Lane, St. Paul, MN 55108.

### Score Information

Scores are based on the number of questions answered correctly. Candidates will not be given credit for any question that has been answered incorrectly or left blank. Candidates should be sure to mark an answer for each question. There is no penalty for guessing.

A score of at least **70 percent** is required to pass each examination. Your score will be shown on the screen at the end of your exam and you will receive a printed score report when you check out with the Test Center Administrator.

If you fail, you will be given a strength and weakness report for no additional charge. This will indicate areas in which you require additional study. You should use this tool to help you properly prepare for your retake exam.

To ensure confidentiality, exam scores will **NOT** be disclosed over the telephone or faxed. For rescheduling information, see the rescheduling section on Page 2.

### Duplicate Score Reports

Candidates requesting duplicate score reports will be charged a **\$15** processing fee per report.

### Examination Review

Candidates who do not pass the examination may register for an optional review of the examination. The review is a study session conducted similarly to an examination.

During the review, candidates will be given the incorrect answers given on the last attempt. Candidates will have 1-1/2 hours to research approved references to determine what the correct answers should have been. There is a **\$20** fee for this service.

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To review the examination, candidates must choose the exam review option on the Registration Form and return it with the **\$20** fee to Thomson Prometric. For more information about examination reviews, candidates should contact Thomson Prometric at 800.805.9120.

### Appeal Committee

Our goal is to provide a quality examination and pleasant testing experience for every candidate. If you are dissatisfied with either and believe we can correct the problem, we would like to hear from you. We provide an opportunity for general comments at the end of your exam. Your comments will be reviewed by our personnel, but you will not receive a direct response.

If you are requesting a response concerning the exam content, registration, scheduling or test administration (testing site procedures, equipment, personnel, etc.), please submit an appeal in writing. Your appeal letter must include your name, Social Security number, exam title, date tested and details of your concern including all relevant facts, your signature and return address. Mail your appeal letter to:

**Thomson Prometric  
ATTN: Appeal Committee  
1260 Energy Lane  
St. Paul, MN 55108**

The Appeal Committee will review your concern and send you a written response within 10 business days of receipt. **Faxed appeals will not be accepted, as an original signature is required.**

### License Issuance

Candidates must obtain a license packet from:

**Tennessee Licensing Board for Contractors**  
500 James Robertson Parkway, First Floor  
Nashville, TN 37243-1150  
615.741.8307

Candidates should complete the license application and submit it with the required financial information to the Board.

When candidates have submitted their license application with all required supporting documentation and passed the required examinations, the Board will schedule a personal interview prior to issuing the contractor license.

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168TN19 Commercial/Industrial Contractor (BC-BC)	\$45	
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